

Serial No. 10/780,579

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 9, 13, 17, 18, 26, 28, 29 and 32-34 in accordance with the following:

1. (Currently Amended) A plasma display device, comprising:
a plurality of first electrodes;
a plurality of second electrodes disposed nearly in parallel with said plurality of first electrodes so as to configure a display cell together therewith, and so as to activate electric discharge between themselves and ~~said a first electrode composing~~ said display cell;
a first electrode drive circuit ~~for~~ applying discharge voltage to said plurality of first electrodes; and
a second electrode drive circuit ~~for~~ applying discharge voltage to said plurality of second electrodes; wherein
~~at least either one of said first and second electrode drive circuits comprises~~ a first and second sustain circuits outputting a sustain discharge voltage for activating electric discharge associated with light emission in said display cell, and at least one of said first or second sustain circuits has a parallel circuit in which a first switching element having a high-speed switching performance and a second switching element having a low-saturation-voltage performance are connected in parallel.
2. (Original) The plasma display device according to claim 1, wherein said first switching element is a power MOSFET.
3. (Original) The plasma display device according to claim 1, wherein said second switching element is an IGBT.
4. (Original) The plasma display device according to claim 1, wherein said first switching element is a power MOSFET, and said second switching element is an IGBT.

Serial No. 10/780,579

5. The plasma display device according to claim 1, wherein said second switching element is turned on at least during a period that discharge current flows between said first electrodes and said second electrodes.

6. (Original) The plasma display device according to claim 5, wherein said first switching element is a power MOSFET.

7. (Original) The plasma display device according to claim 5, wherein said second switching element is an IGBT.

8. (Original) The plasma display device according to claim 5, wherein said first switching element is a power MOSFET, and said second switching element is an IGBT.

9. (Currently Amended) The plasma display device according to claim 1, wherein said first switching element and said second switching element are comprised so that a drive voltage is applied to an electrode at different timings~~electrode drive circuit further comprises a sustain circuit for outputting sustain discharge voltage for activating electric discharge associated with light emission in said display cell;~~

~~said sustain circuit comprises a parallel circuit in which said first switching element and said second switching element are connected in parallel.~~

10. (Original) The plasma display device according to claim 9, wherein said first switching element is a power MOSFET.

11. (Original) The plasma display device according to claim 9, wherein said second switching element is an IGBT.

12. (Original) The plasma display device according to claim 9, wherein said first switching element is a power MOSFET, and said second switching element is an IGBT.

13. (Currently Amended) The plasma display device according to claim 9, wherein at least one of said first or second sustain circuit-circuits further comprises a higher-potential-side switching circuit for supplying a first potential in relation to said sustain discharge voltage to said

Serial No. 10/780,579

electrodes configuring said display cell, and a lower-potential-side switching circuit for supplying a second potential in relation to said sustain discharge voltage, lower than said first potential;
said higher-potential-side switching circuit and said lower-potential-side switching circuit respectively having said parallel circuit in which said first switching element and said second switching element are connected in parallel.

14. (Original) The plasma display device according to claim 13, wherein said first switching element is a power MOSFET.

15. (Original) The plasma display device according to claim 13, wherein said second switching element is an IGBT.

16. (Original) The plasma display device according to claim 13, wherein said first switching element is a power MOSFET, and said second switching element is an IGBT.

17. (Currently Amended) The plasma display device according to claim 13, wherein said first and second electrode drive circuit-circuits further ~~comprises~~ comprise a power recovery circuit connected to said first electrode configuring said display cell.

18. (Currently Amended) The plasma display device according to claim 13, wherein said first and second electrode drive circuit-circuits further ~~comprises~~ comprise a power recovery switch connected via a coil to said first electrode configuring said display cell.

19. (Original) The plasma display device according to claim 18, wherein said second switching element is turned on at least during a period that discharge current flows between said first electrodes and said second electrodes.

20. (Original) The plasma display device according to claim 18, wherein said first switching element is a power MOSFET.

21. (Original) The plasma display device according to claim 18, wherein said second switching element is an IGBT.

22. (Original) The plasma display device according to claim 18, wherein said first

Serial No. 10/780,579

switching element is a power MOSFET, and said second switching element is an IGBT.

23. (Original) The plasma display device according to claim 1, wherein said first switching element and said second switching element almost coincide with each other in their input threshold voltage characteristics.

24. (Original) The plasma display device according to claim 1, wherein said first switching element and said second switching element are driven based on the same drive signal.

25. (Original) The plasma display device according to claim 1, wherein a switching time of said first switching element is shorter than that of said second switching element.

26. (Currently Amended) The plasma display device according to claim 13, wherein said higher-potential-side switching circuit is configured so as to supply a positive potential in relation to said sustain discharge voltage to the electrode configuring said display cell, and said lower-potential-side switching circuit is configured so as to supply a negative potential in relation to said sustain discharge voltage to the first electrode configuring said display cell.

27. (Original) The plasma display device according to claim 26, wherein said positive potential represents a voltage which equals to a half of said sustain discharge voltage above the ground level, and said negative potential represents a voltage which equals to a half of said sustain discharge voltage below the ground level.

28. (Currently Amended) The plasma display device according to claim 26, wherein said first and second electrode drive circuit-circuits further ~~comprises~~ comprise a power recovery circuit connected to said first electrode configuring said display cell.

29. (Currently Amended) The plasma display device according to claim 26, wherein said first and second electrode drive circuit-circuits further ~~comprises~~ comprise a power recovery switch connected via a coil to said first electrode configuring said display cell.

30. (Original) The plasma display device according to claim 29, wherein said positive potential represents a voltage which equals to a half of said sustain discharge voltage above the

Serial No. 10/780,579

ground level, and said negative potential represents a voltage which equals to a half of said sustain discharge voltage below the ground level.

31. (Original) The plasma display device according to claim 30, wherein one terminal of said power recovery switch is connected via said coil to said electrode configuring said display cell, and the other terminal is connected to a ground terminal.

32. (Currently Amended) The plasma display device according to claim 13, wherein a reset voltage for initializing said display cell is superposed to the reference voltage of said lower-potential-side switching circuit during a period that said reset voltage is supplied to said first electrode configuring said display cell.

33. (Currently Amended) The plasma display device according to claim 32, wherein said first and second electrode drive ~~circuit-circuits~~ further ~~comprises-comprise~~ a power recovery circuit connected via a coil to said first electrode configuring said display cell.

34. (Currently Amended) The plasma display device according to claim 33, wherein one terminal of said power recovery switch is connected via a coil to said electrode configuring said display cell, and

a voltage synchronized with said reset voltage for initializing said display cell is superposed to the other terminal of said power recovery switch during a period that said reset voltage is supplied to said first electrode configuring said display cell.